

U.S. Department of Agriculture, Agricultural Research Service

Systematic Mycology and Microbiology Laboratory - Nomenclature Fact Sheets

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Puccinia oenanthes-stoloniferae

Host Range and Geographic Distribution

Puccinia oenanthes-stoloniferae S. Ito ex Tranzschel 1939 has been reported from China, Japan, and Korea (Hiratsuka 1992), Pakistan (Ahmad 1956), Taiwan (Sawada 1943), and the USSR (Azbukina 1974). The host range is reportedly restricted to *Oenanthe javanica* subsp. *javanica* and *Oenanthe javanica* subsp. *stolonifera* (as *Oenanthe stolonifera*) of the Apiaceae (formerly Umbelliferae). It is autoecious, with all states being produced on the same host. Spermatogonia and aecia occur on leaves, petioles, and stems, while uredinia and telia occur on leaves and petioles only (Hiratsuka 1992).

Nomenclature

The teleomorphic state of this rust was initially described and given the name *Puccinia oenanthes* T. Miyake 1906. It is sometimes erroneously cited as *Puccinia oenanthes* (Dietel) T. Miyake, but the citation of Dietel should not be included in the name because the anamorph *Uredo oenanthes* cannot serve as the basionym for the teleomorphic state (Art. 59.6). In the same year and in reference to the same rust on *Oenanthe*, Dietel proposed the name *Puccinia oenanthes*, promising to provide the description in a later publication. While the name *Puccinia oenanthes* Dietel 1906 sometimes appears in the literature (i.e., Hiratsuka 1992), this should be regarded as an invalid name, without description, and the name should be cited *Puccinia oenanthes* T. Miyake 1906.

Nevertheless, *Puccinia oenanthes* T. Miyake 1906 cannot serve as the accepted name for this rust, because it is an illegitimate later homonym of *Puccinia oenanthes* Cestria ex Bagnis 1876 (= *Puccinia umbelliferarum*, see nomenclature report below). Tranzschel listed S. Ito as the author, with the notation 'in sched.' (in schedula) when he published the name *Puccinia oenanthes-stoloniferae* in 1939. Ito printed the replacement name *Puccinia oenanthes-stoloniferae* on a herbarium sheet, but apparently did not validly publish the name (not seen). The accepted name for this rust is therefore *Puccinia oenanthes-stoloniferae* S. Ito ex Tranzschel 1939.

Nomenclature Report

Puccinia oenanthes-stoloniferae S. Ito ex Tranzschel 1939 (Urediniomycetes, Uredinales)

[≡ *Puccinia oenanthes* T. Miyake 1906 - illegitimate later homonym, not included in search] Note: Not *Puccinia oenanthes* Cestria ex Bagnis 1876 = *Puccinia umbelliferarum* DC 1815.

Alternate State (Anamorph): *Uredo oenanthes* Dietel

Notes: The teleomorphic state of this rust was initially described and given the name *Puccinia oenanthes* T. Miyake 1906. It is sometimes erroneously cited as *Puccinia oenanthes* (Dietel) T. Miyake, but the citation of Dietel should not be included in the name because the anamorph *Uredo oenanthes* cannot serve as the basionym for the teleomorphic state (Art. 59.6). Also in 1906, Dietel listed the name *Puccinia oenanthes*, promising to provide the description in a later publication. While the name *Puccinia oenanthes* Dietel 1906 sometimes appears in the literature (i.e., Hiratsuka 1992), this should be regarded as an invalid name, without description. Ito reportedly suggested but did not validly publish the replacement name *Puccinia oenanthes-stoloniferae*, after discovering that *Pi*

Puccinia oenanthes T. Miyake 1906 was an illegitimate later homonym of *Puccinia oenanthes* Carestia ex Bagnis 1876 (= *Puccinia umbelliferarum*). Tranzschel listed S. Ito as the author, with the notation 'in sched.' (in schedula, i.e., published on a herbarium sheet) when he published the replacement name *Puccinia oenanthes-stoloniferae*, which should therefore be cited as S. Ito ex Tranzschel 1939.

Distribution: Asia, including the USSR (Azbukina 1974).

Substrate: Leaves, petioles, stems.

Disease Note: Autoecious rust.

Host: *Oenanthe javanica* subsp. *javanica*, *Oenanthe javanica* subsp. *stolonifera* (as *Oenanthe stolonifera*). (Apiaceae).

Verified By: Erica On Jun 20, 2006

Uredo oenanthes Dietel 1900

Alternate State (Teleomorph): *Puccinia oenanthes-stoloniferae* S. Ito ex Tranzschel

Supporting Literature:

Azbukina, Z.M. 1974. [Rust fungi of the Far East]. Nauka, Moscow, 526 pages.

Cho, W.D., and Shin, H.D., Eds. 2004. List of plant diseases in Korea. Fourth edition. Korean Society of Plant Pathology, 779 pages.

Hiratsuka, N., Sato, S., Katsuya, K., Kakishima, M., Hiratsuka, Y., Kaneko, S., Ono, Y., Sato, T., Harada, Y., Hiratsuka, T., and Nakayama, K. 1992. The rust flora of Japan. Tsukuba Shuppankai, Takezono, Ibaraki, 1205 pages.

Sawada, K. 1943. Descriptive catalogue of the Formosan fungi. Part IX. Rep. Dept. Agric. Gov. Res. Inst. Formosa 86: 1-178.

Verified By: Erica On Jun 20, 2006

See also the nomenclature report for *Puccinia umbelliferarum*:

***Puccinia umbelliferarum* DC. 1815 (Urediniomycetes, Uredinales)**

≡ *Puccinia oenanthes* Carestia ex Bagnis 1876 Note: Superfluous name for *Puccinia umbelliferarum*. Not the illegitimate later homonym *Puccinia oenanthes* T. Miyake 1906 = *Puccinia oenanthes-stoloniferae*.

Notes: According to Saccardo (Syll. Fung. XX:640, 1911) *Puccinia oenanthes* Carestia ex Bagnis was a dubious species. It was also an illegitimate superfluous name; Bagnis (1876) validated Carestia's unpublished name by providing an illustration but listed the previously published *Puccinia umbelliferarum* DC 1815 as a synonym. *Puccinia oenanthes* T. Miyake 1906 is an illegitimate later homonym, and has been given the replacement name *Puccinia oenanthes-stoloniferae* S. Ito ex Tranzschel 1939. *Puccinia umbelliferarum* DC. is listed by Sydow (1910) as a partial synonym of *Puccinia pimpinellae* and also of *Puccinia bullata* (Pers.:Pers.) J. Schroet. (as *Puccinia bullata* Winter), considered by Hiratsuka (1992) to be a synonym of *Puccinia angelicae*. The name *Puccinia umbelliferarum* DC. has been applied to various rusts in the historical literature and its taxonomic status is in need of reevaluation.

Distribution: Europe (France, type). Reported in Italy as *Puccinia oenanthes*.

Substrate: Leaves, petioles.

Disease Note: Autoecious rust.

Host: *Selinum* spp., *Peucedanum* spp., *Oenanthe pimpinelloides* (Apiaceae).

Supporting Literature:

Sydow, P., and Sydow, H. 1910. Monographia Uredinearum. Vol. 2. Genus *Uromyces*. F. Borntraeger, Leipzig, 396 pages.

Verified By: Erica On Jun 19, 2006

Written by Erica Cline, 2006